

Abstract Submitted
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Front end electronics for the Majorana Demonstrator JAMES LOACH, Lawrence Berkeley National Laboratory, MAJORANA COLLABORATION — The Majorana experiment will use an array of p-type point contact Ge detectors to search for neutrinoless double beta decay in ^{76}Ge . The low capacitance of point contact detectors allows low noise performance and therefore low detection thresholds. Realizing these in practice requires low noise electronics and front end boards positioned close to the detectors. The low background requirements of Majorana mean that the front end electronics must be extremely radio-pure. This talk describes a front end board developed at LBNL, focusing on the choice of materials and techniques used to verify the radio-purity.

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